

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Igor Polyakov et al) Art Unit: To be assigned
U.S. Appln. No. : To be assigned) Examiner: To be assigned
Confirmation No. : To be assigned
U.S. Filing Date : April 21, 2004
Title of Invention : DERMATOMYCOSIS VACCINE
Attny. Docket No. : 3/400-5-C5

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

April 21, 2004

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith concerning the subject application is an Information Disclosure Statement (Form 1449A/B) under 37 C.F.R. §§1.56 and 1.97, as more specifically described hereinbelow. Copies of the citations listed on the PTO-1449 form are filed in US Application No. 10/085,703, filed on February 28, 2002, Polyakov, I. et al (Attorney Docket No. 3/400-4-C4).

☒ 1.97(b). This Statement is being filed: i) within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53 (d); ii) within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application; iii) before the mailing of a first Office action on the merits; or iv) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114.

☐ 1.97(c). This Statement is being filed after the time period specified in 37 C.F.R. §1.97(b), but before the mailing date of: i) a final action under 37 C.F.R. §1.113, ii) a notice of allowance under 37 C.F.R. §1.311, or iii) an action that otherwise closes prosecution in the application. This Statement is being accompanied by:

☐ A statement as specified in 37 C.F.R. §1.97(e) [see below]; or

☐ The fee set forth in 37 C.F.R. §1.17(p).

☐ The Commissioner is hereby authorized to charge payment of the \$180.00 fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 02-2955.

☐ 1.97(d). This Statement is being filed after the period specified in 37 C.F.R. §1.97(c) but on or before payment of the issue fee. This Statement is accompanied by a statement as specified in 37 C.F.R. §1.97(e) [see below] and the fee set forth in 37 C.F.R. §1.17(p).

☐ 1.97(e).

☐ Each item of information contained in the instant information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the instant information disclosure statement; or

☐ No item of information contained in the instant information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in the instant information disclosure statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three (3) months prior to the filing of the instant information disclosure statement.

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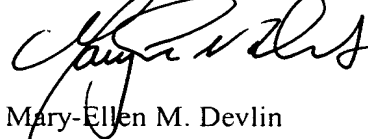
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☐ 1.704(d). Each item of information contained in the accompanying information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, which communication was not received by any individual designated in section 1.56(c) more than thirty (30) days prior to the filing of the accompanying information disclosure statement.

☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 C.F.R. §1.16 and any patent application processing fees under 37 C.F.R. §1.17, or credit any overpayment of same, to Deposit Account No. 02-2955.

Triplicate copies of this form are enclosed.

Respectfully submitted,



Mary-Ellen M. Devlin
Attorney for Applicant(s)
Reg. No. 27,928

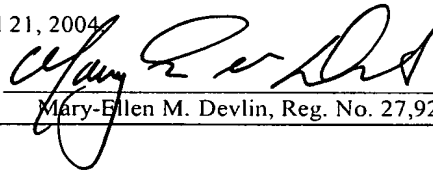
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**INFORMATION DISCLOSURE
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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,129,647	12/12/1978	Edmund Klein	
		US- 4,229,434	10/21/1980	Arutjun, K. et al	
		US- 4,657,761	04/21/1987	Cesar M. Pinto	
		US- 4,368,191	1/11/1983	Sarkisov et al	
		US- 5,277,904	1/11/1994	Pier, A	
		US- 5,284,652	2/8/1994	Pier	
		US- 6,428,789	8/6/2002	Stobel et al	
		US- 6,132,733	10/17/2000	Werner et al	
		US- 5,453,273	9/26/1995	Werner et al	
		US- 6,290,950	9/18/2001	Poliakov et al	
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FOREIGN PATENT DOCUMENTS

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		EP 0393371	10/24/1990	Jefferson Labs, Inc.		
		WO 9307894	4/29/1993	BI Vetmedica GmbH		

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		A.J. Chanis, Dissertation, J.R. Kovalenko Institute, Moskow (February 27, 1989)	
		E.L. Kenney and M. Huppert., "Immunization Against Superficial Fungous Infection", J. Invest. Derm., 32, pp. 7-13 (1959) ("Chanis")	
		E.L. Kenney and M. Huppert., "Immunization Against Superficial Fungous Infection", J. Invest. Derm., 32, pp. 7-13 (1959)	
		K. Wawrzekiewicz and J. Wawrzekiewicz, "Early Immunization of Calves with an Inactivated Vaccine Against Trichophytosis", Polskie Archiwum Weterynaryjne, 28, p.p. 5-16 (1988)	
		K. Wawrzekiewicz and J. Wawrzekiewicz, "Effect of Levamisole on the Immune Response of Guinea Pigs Immunized with Inactivated Trichophyton verrucosum Strain", Annales UMCS (Lublin), section DD. 39, pp. 53-63 (1984)	
		P. Kielstein and W. Richter, "Versuche zur Immunprophylaxe der Rindertrichophytie", Sonderdruck aus dem Archiv fur Experimentelle Veterinarmedizin Bd. 24, H. 5/1970, pp. 1205-1218 (1970) ("Kielstein")	
		E. Florian et al., "Aktiv Immunizalasi Kiserletek Borjak Tarlosomore Ellen", Magyar Allatorvosok Lapja, 19(12), pp. 529-530 (1964) ("Florian")	
		M.L. Wharton et al., "Active Immunization Against Trichophyton Purpureum Infection in Rabbits", J. Invest. Dermatol. 14, pp. 291-303 (1950)	
		C. Mosher et al., "Ringworm (Microsporum canis) with Inactivated Fungal Vaccine", Vet Med/Small Animal Clin., 72, pp. 1343-1345 (1977)	
		E. Ibragimov et al., "Investigation of the immunogenic and curative features of a formaldehyde vaccine against ringworm in cattle", Usbek Veterinary Research Institute XXX Part 1 Taskent (USSR) (1980) ("Ibragimov")	
		K. Wawrzekiewicz et al., "Szczepionka Inaktywowana w Profilaktyce i Leczeniu Grzybicy Skornej Bydla", Medycyna Weterynaryjna, 44(11), pp. 648-651 (1988) ("Wawrzekiewicz-Medycyna")	

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		CAB International Abstract No. 892290473 (1989) ("CAB Abstract")	
		T. Kocik, "Proba Oceny Wartosci Immunogennych Szczepionek Zywych i Zabitych Przeciwnko Trychofitozie Dla Swinek Morskich I Mlodego Bydla", Polskie Archivum Weterynaryjne, 23(3), pp. 95-107 (1982)	
		Anon, "Results of a Therapeutic Efficacy Test Using an Inactivated Microsporum Canis Vaccine", typewritten material 5-88 available at US Dept. of Agriculture, National Agricultural Library (1988)	
		R. Weiss et al., "Immunisierungsversuche an Meerschweinchen mit einem Trichophyton Verrucosum-Lebendantigen", Mykosen, 20 (2), pp. 54-64 (1977)	
		A.K. Sarkisov et al., Biological Abstracts, Vol. 81, Abstract No. 4165 (1986) **	
		W. Wawrzkievicz et al., Biological Abstracts, Vol. 92, Abstract No. 124650 (1991)**	
		A.K. Sarkisov et al., "Specific Prophylaxis of Trichophytosis in Animals", Mikol. Fitopatol., 19(1), pp. 51-57 (1985)**	
		W. Wawrzkievicz et al., "An Inactivated Vaccine Against Ringworm", Comp. Immu. Microbiol. Infect. Dis., 15(1), pp. 31-40 (1992)**	
		C.L. Mosher et al., "Treatment of Ringworm (Microsporum canis) with Inactivated Fungal Vaccine", Vet. Med., pp. 1343-45 (August 1977)**	
		R. Gudding et al., "Vaccination of Cattle Against Ringworm Caused by Trichophyton verrucosum", Am. J. Vet. Res., 47(11), pp. 2415-17 (1986)**	

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		Polyakov et al., "Clinical Manifestations of Dermatophytosis induced...", Byulleten Vsesoyuznogo Instituta Experimental noi Vet., 65, pp. 43-45 (1988)**	
		Sarkisov et al., "Dermatophytosis of Camels and Biological Properties of the Causal Agent", Veterinariya (Moskva), 10, pp. 31-35 (1989)**	
		Ivanova et al., "Trichophyton sarkisovii New Species, A New Pathogenic...", "Mikol. Fitopatol.", 17(5), pp. 363-67 (1983)**	
		Segal, "Immunization Against Fungal Diseases in Man and Animal" in Handbook of Applied Mycology, Vol. 2, pp. 341-68 (1991)**	
		Grappel et al., "Immunology of Dermatophytes and Dermatophytosis", Bacteriological Riev., 38(2), pp. 222-250 (1974)**	
		A.C. PIER ET AL; Experimental immunity to Microsporum canis and cross reactions with other dermatophytes of veterinary importance; Journal of Medicine and Veterinary Mycology; (1995) Vol. 33 pages 93-97	
		ROAR GUDDING ET AL; Immunoprophylaxis of bovine dermatophytosis; Can Vet J; Vol. 36 pages 302-306 (May 1995)	
		J.K. WABACHA ET AL; Occurrence of dermatophytosis (ringworm) due to Trichophyton verrucosum in dairy calves and its spread to animal attendants; JI S. Afr. vet. Ass. (1998) Vol. 69 No. 4 pages 172-173	
		M. PAVLAS ET AL; The Therapeutic and Preventive Effectiveness of Vaccine Against Trichophytosis in Cattle; Research Institute of Veterinary Medicine (1979) Vol. 24 No. 4 pages 209-215	
		J. WAWRZKIEWICZ ET AL; Monovalent and Combined Inactivated Killed Vaccines in the Prophylaxis of Trichophytosis of Breeding Foxes; Med Weter (1991) Vol 47 No. 7 pages 317-320	

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		DOUPARINOVA, M. ET AL; Epidemiological aspects of ringworm in calves on large farms; Central Vet. Res. Inst. (1978) Vol. 15 No. 1 pages 74-77	
		GOLOVINA, N.P. ET AL; Pathogenicity and immunogenicity of strains of Trichophyton verrucosum from different sources; Byulleten Vsesoyuznogo Inst. (1982) Vol. 45 pages 59-61	
		KAMIONOWSKI, M. ET AL; Efficacy of Alpevac (Biowet Pulawy) in the prevention of dermatomycosis in rabbits; Zycie Weterynaryjne (2001) Vol. 76 No. 2 pages 101-102 Issn: 0137-6810	
		WOLOSZYN, S. ET AL; Efficacy of Vaccines in the control of dermatomycoses in rabbits; Medycyna Weterynaryjna (1996) Vol. 52 No. 8 pages 518-521 ISSN: 0025-8628	
		BALABANOFF V.A.; Occupational dermatomycoses of zoophilic origin in Bulgaria; Dermatosen in Burf und Umwelt (1985) Vol 33 No. 5 pages 170-174	
		WOLOSZYN, S. ET AL; Prevalence and specific prevention against trichophytosis in breeding foxes; Med Weter (1983) Vol. 39 No. 7 pages 387-391	
		O. AAMONDT ET AL; Vaccination of Norwegian Cattle against Ringworm; Vet. Med B (1982) Vol. 29 pages 451-456 ISSN: 0721-1856	
		EIVIND LIVEN ET AL; Efficacy of vaccination against ringworm in cattle; Nord Vet. Med. (1985) Vol. 37 page 187	
		KOMAREK, J. ET AL; Ringworm of cattle -- results of vaccination; Veterinarniho Ustavu (1982) No. 12 pages 69-74	
		J.M.B. SMITH ET AL; Strategies for the development of a vaccine against ringworm; Journal of Medical and Veterinary Mycology (1995) Vol. 33 pages 87-91	

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		A. RYBNIKAR ET AL; Vaccination of Horses Against Trichophytosis; ACTA Vet Brno (1991) Vol. 60 pages 165-169	
		A. RYBNIKAR ET AL; Immunity in cattle vaccinated against ringworm; Mycoses (1991) Vol. 34 pages 433-436	
		J.M. MCGREGOR ET AL; Possible mechanisms of immune modulation in chronic dermatophytoses: an in vitro study; British Journal of Dermatology (1992) Vol. 127 pages 233-238	
		P.J. GORDON ET AL; Efficacy of a live attenuated Trichophyton verrucosum vaccine for control of bovine dermatophytosis; Veterinary Record (1996) Vol. 139 Pages 395-396	
		A. KH. SARKISOV ET AL; Modern Methods for Control of Animal Dermatophytosis; Advance in Agricultural Science (1987) pages 181-197	
		A. TAGER ET AL; Immunotherapy of Superficial Dermatophytoses; Dermatologica (1973) Vol. 147 pages 123-129	
		P. KIELSTEIN; Systematic control of dermatophytosis profunda of cattle in the former GDR; Mycoses (1990) Vol. 33 pages 575-579	
		D.J. DEBOER ET AL; Investigations of a killed dermatophyte cell-wall vaccine against infection with Microsporum canis in cats; Research in Vet Sci. (1995) Vol. 59 No. 2 pages 110-113	
		KAREN A. MORIELLO ET AL; Feline Dermatophytosis; Feline Dermatology (1995) Vol. 25 No. 4 pages 901-921	
		PERSPECTIVES ON CATS; When the Fungus (Ringworm) Is Among Us; The Cornell Feline Health Center (1994) pages 1-3 and 8	

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				Application Number	To be assigned
				Filing Date	April 21, 2004
				First Named Inventor	Igor Dimitriesich Polyakov
				Art Unit	To be assigned
				Examiner Name	To be assigned
				Attorney Docket Number	3/400-5-C5

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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